

HWS

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1) First proof of Pythagorean Theorem

2) Second Proof of the Pythagorean Theorem

$$3) a = 2mn, b = m^2 - n^2, c = m^2 + n^2$$

$$3^2 + 4^2 = 5^2 \Rightarrow (20 + m^2 - n^2) = m^2 + n^2$$

$$20 = 2n^2 \quad \sqrt{60} = \sqrt{n^2} = 2\sqrt{15}$$

$$3(2\sqrt{15})^2 + 4(2\sqrt{15})^2 = 5(2\sqrt{15})^2$$

4) We know there are infinitely positive triples for any positive n because of the equation

$$3(n)^2 + 4(n)^2 = 5(n)^2$$

5) Heron

6) Hardy

7) Fermat

8) Andrew Wiles